# NATIONAL RADIO INSTITUTE MODEL 68 TUBE TESTER

### OPERATING INSTRUCTIONS

(Follow in Order Listed)

### LINE ADJUSTMENT

- (1) Insert power cord into a 110 volt 60 cycle supply.
- (2) Set "A-CIRCUIT" knob as shown in column "A-CIR."
- (3) Set "B-FILAMENT" knob as shown in column "B-FIL."
- (4) Set "C-LOAD" knob as shown in column "C-LOAD."
- (5) Set levers as shown in column "U-UP" and "D-DOWN."
- (6) Insert tube in socket.
- (7) Turn "LINE" knob until meter pointer reads at "LINE TEST" mark.

#### SHORT TEST

(8) Move each lever referred to in light face type on chart (one at a time) two positions and back. For example, type 01-A move levers 2 and 3 to "D" position. A shorted tube is indicated by a bright red glow of the "SHORT TEST" peop lamp red glow of the "SHORT TEST" neon lamp.

### VALUE TEST

- (9) Hold "TEST" knob in "VALUE" position and read tube condition on meter.
- (10) Release "TEST" knob. Return all levers to center position.

### SPECIAL TESTS

#### OPEN ELEMENT TEST

- (la) Follow operations (l) through (9).
- (2a) With "Test" knob in "VALUE" position, move each lever in "U" position (only those shown on chart in light face type) to "D" position (one at a time) and return. Continuity between tube pin and the element being tested in indicated by a chart in training delivery. ment being tested is indicated by a change in pointer deflection. A small change denotes a satisfactory plate or screen connection. A large change denotes a satisfactory grid connection. When there is only one lever in "U" position, no open element test need be made.
- (3a) Release "TEST" knob.

### FILAMENT AND TAP CONTINUITY TEST

- (1b) Follow operations (1) through (7).
- (2b) Set "B-FILAMENT" knob back to .75 position.
- (3b) Move each lever referred to in dark face type on chart (one at a time) two positions and back. For example, type 01-A move lever 4 to "U" position. "Good" filament or other internal pin connection is indicated by a bright red glow of the "SHORT TEST" neon lamp.

### CONTINUITY TEST (pilot lamps and other miniature base bulbs)

- (1c) Follow operations (1) and (7) under "LINE ADJUSTMENT."
- (2c) Set "B-FILAMENT" knob to voltage of lamp under test.
- (3c) Place lamp in center of 7 prong socket.
- (4c) A "good" lamp is indicated by normal lighting of its filament.

### TUBE CHART NOTES

#### TEST 2 and TEST 3

When more than one test is given on the chart for the same tube type, proceed as noted below:

(le) Follow operation (l) through (10)—(first test).

(2e) Reset all knobs and levers as noted on the chart for Test 2.

(3e) Hold "TEST" knob in "VALUE" position and read tube condition on meter.

(4e) Repeat operations (1e), (2e), and (3e) for Test 3.

(5e) Release "TEST" knob. Return all levers to center position and turn "LINE" knob to "OFF."

Special note on chart refers to the tube directly preceeding note.

Lever markings 1 through 9 designate RMA tube pin numbers 1 through 9 respectively.

Lever "0" designates the Top Cap Connection.
"Good tube reads 5," etc., indicates tubes reading 5 and higher are good.

"Tapped Fil. See Oper. Inst. (1b) to (3b)" is added after the more common tubes with tapped filaments. It is a reminder that filament tap continuity must be checked. For the most accurate check, the FILAMENT AND TAP CONTINUITY TEST should be made on all tubes.

## INSTRUCTIONS FOR MAKING CHART LISTINGS

#### **NEW TUBE TYPES**

From time to time, supplementary tube data will be available to cover new tube types. Until this data is set up, the following may be used to obtain preliminary chart settings.

Use 3 or more new tubes and proceed as follows:

- (1f) Refer to manufacturer's handbook under the particular tube type for filament voltage and pin connections.
- (2f) Set "A-CIRCUIT" switch as follows:

  - "1" for tubes with cathode current below 4 Ma, generally diode types.
    "2" for tubes with cathode current from 3 to 15 Ma, generally filament types excluding diodes.
  - "3" for tubes with cathode current above 8 Ma, generally indirectly heated (cathode) types excluding diodes.
  - "4" for target or eye tubes, gaseous rectifiers and gaseous control tubes.
- (3f) Set "B-FILAMENT" switch to filament voltage.
- (4f) Refer to base drawing in "Manufacturer's Handbook" on tubes for the type being set up. Levers "1234, etc." compare to RMA pin numbers.
- (5f) Set all levers in normal or center position. This is one of the "FILAMENT" positions and all elements in this position are tied together.
- (6f) Find the first filament connection pin on tube base and leave corresponding lever in center position. This connects one side of filament to the filament transformer.
- (7f) Find the second filament connection pin on tube base and move corresponding lever to "D" position. This connects the opposite side of the filament to the filament transformer. If filament is tapped at center, move corresponding filament pins to connect the two sections of filament in parallel. If filament has a panel lamp section, move the levers corresponding to this section to "D" position.
- (8f) Find the cathode connection pin on tube base and move corresponding levere to "D" position. This connects the cathode to one side of the filament transformer.
- (9f) If the tube is of the multi-section type such as duodiodes, duotriodes, etc., find the elements not under test and move corresponding levers to "D" position.
- (10f) Move all levers corresponding to the other active elements under test to "U" position.
- (11f) Insert tube into proper socket.
- (12f) Turn on "LINE" control and adjust so that meter reads at "LINE TEST" mark.
- (13f) Hold "TEST" switch in "VALUE" position. Adjust "C-LOAD" control for each tube so that the majority of the new tubes read 70 on the meter scale.
- (14f) List settings in the book for further reference.

### GENERAL NOTES

Pointer indication above full scale indicates tube is extremely good or more than 130%. To make element continuity check on these tubes, turn load control "C" so that pointer falls within end scale markings and proceed with continuity tests.

The seven pin sub-miniature socket is used for 5, 6 and 7 prong tubes. Place the red dot on the tube to the extreme right to match the dot on the socket.

Cathode to heater leakage is indicated by a faint glow of the "SHORT TEST" neon lamp when making short test operation (8).

### TUBE SUFFIX LETTER SYMBOLS

In general, tubes with suffixes as noted below can be checked by using the set up for the tube without that suffix.

The letter G indicates a glass tube with an octal base.

GT Indicates use of a T-9 bulb.

Y Indicates an "Intermediate loss" base.

The letters A, B, C, D, E, and F used in sequence indicate improved versions unilaterally interchangeable with the prototype or its subsequent versions.

### ADDITIONAL TUBES

the prototype o W Indicates a	r its subs military t	spe and is o	ons. assigned only o	on behalf of the armed forces.
			ADDITION	AL TUBES
TUBE   TYPE   A   Cir	KNOBS   B     Fil	LEVEF C   U Load   Up	POSITION D Down	TUBE   KNOBS   LEVER POSITION   TYPE   A   B   C   U   D   Cir   Fil   Load   Up   Down
00A 2 01A 2 0A2 4	5 5 Off d tube rec	30 23 45 23 40 <b>15</b>	4 4 247	2E41 1 1.2 56 125 6 2E41 Test 2 1 1.2 95 3 6 (Good tube reads 10)  2E42 1 1.2 56 125 6
<b>0A3/VR75</b> 4 (Goo	Off d tube red Off	30 5	2 <b>37</b> 2 <b>37</b>	2E42 Test 2 1 1.2 95 3 6 (Good tube, reads 10)
(Goo <b>0C3/VR105</b> 4	d tube red Off d tube red	ads 10) 30 5	237	3B4
<b>0D3/VR150</b> 4 (Goo	Off d tube red	30 5 ads 10)	237	6AL7 Eye CL . 4 6.3 0 3 28 6AS5
1C21 4 2C51 2 2C51 Test 2 2 2C52 2	Off 6.3 6.3 12.6	45 5 23 34 23 67 26 45	27 267 <b>89</b> <b>2</b> 348 <b>9</b> 6 <b>7</b>	6BA7 3 6.3 18 12 35679 6BA7 Test 2 1 6.3 36 1679 235 7AK7 3 6.3 28 2346 78
2C52	12.6 6.3 3.3	26 12 18 1 <b>5</b> 6 <b>7</b> 22 350	3 <b>7</b> 2 <b>4</b> 2 <b>7</b>	7C4/1203A 2 6.3 33 4 78 12A 2 5 26 23 4 12AV6 3 12.6 19 17 24
(In Short Te		1, 4 and 6 s	hould show	12AV6 Test 2
<b>2E30</b>	3.3 1.2 1.2 1.2	12 <b>12</b> 56 25 124 25 124 27 124	34 5 5 5	(No open element check on lever 5)  12BA7 3 12.6 18 12 35679  12BA7 Test 2 1 12.6 36 1679 235  12L8G 3 12.6 20 345 27
<b>2E36</b>	1.2	27 124	5	12L8G Test 2 3 12.6 22 158 27

## ADDITIONAL TUBES

			-						-		DOCUMENT
TUBE TYPE	* *	KNOBS	C	LEVER U	POSITION D	TUBE TYPE	A	KNOB:	S     C	LEVER	POSITION D
IIPE	A   Cir	Fil	Load	Up	Down	IIFE	Cir		Load	Üρ	Down
	, On	<u> </u>				TO TO TO		<u>'                                      </u>	<del></del>		
1258	1	12.6	27	60 3	<b>28</b> 5 <b>8</b>	5672 5676	1 2	$\frac{1.2}{1.2}$	26 28	12 <b>4</b> 13	5 4
12S8 Test 2 12S8 Test 3	1	<b>12</b> .6 12.6	39 37	3 1	3 <b>8</b> <b>28</b>	5676 5677	l	1.2	24	13	4
1258 Test 4	i	12.6	34	4	28	5678	î	1.2	23	124	3
1976	$\hat{2}$	12.6	$2\overline{4}$	Ī6	<b>37</b>	5691	3	6.3	28	12	3 <b>7</b>
19J6 Test 2	2	12.6	24	25	3 <b>7</b>	5691 Test 2	3	6.3	<b>2</b> 8	45	<b>67</b>
26D6	2	25	22	16	2 <b>3</b> 57	5692	2	6.3	26	12	3 <b>7</b>
26D6 Test 2	1	25	40	567 <b>25</b> 67	123	5692 Test 2 5693	2 2	6.3 6.3	26 27	<b>4</b> 5 3468	6 <b>7</b> 5 <b>7</b>
35C5	3 3	32 50	20 17	<b>25</b> 67	13 13	5693 RK-61	ĺ	1.4	26	13	4
50Y7	3	<b>5</b> 0	20	3	467	5696	$\dot{\hat{2}}$	6.3	31	16	2 <b>457</b>
50Y7 Test 2	3	50	20	5	<b>67</b> 8	5731	$\overline{2}$	6.3	37	4	<b>7</b> 8
210-T	3	7.5	56	23	4	WL-481	4	2.5	59	0	4 🔾
230-S	2	2	35	23	4						
233-S	3	2	39	234	5				1		
234-S	2 3	2 7.5	40 42	230 20	<b>4</b> 3 <b>4</b>		<u> </u>	7	}		É
262-B 274-A	ა 3	7.3 5	36	20	0∓ <b>4</b>		<u> </u>	_\	-]		9
274-A Test 2	3	5	36	·3	4		1	ŀ			S
300-В	3	5	21	23	4		-	<b>-</b>	-		<u> </u>
313-CB	4	Off	53	2	14		[	`[			
313-CD	4	Off	44	2	14		<del> </del>	-	_		
376-B	4	Ŏŧŧ	37	5	27		ļ	-			4
393-A	4	2.5 1.2	20 26	40 12 <b>4</b>	12 5						0
507-AX 523AX	1	1.2	25 25	124	5			_			
525AX	î	1.2	26	124	5	•					
526AX	ī	1.2	26	124	5		-[	-	-[		
553AXA	1	1.2	25	124	5		1	1	j		<u> </u>
605CX	2	6.3	22	1257	<b>4</b> 6		-	-	- i		<del>- 0</del>
606BX	2	6.3 6.3	23 20	1 15	<b>34</b> <b>4</b> 6				ļ		3
608CX 619CX	3 2	6.3	25	14	<b>3</b> 5		-  				9
619CX	ī	6.3	23 23	468	35 <b>7</b>		_	_			
816	$\overline{4}$	2.5	19	Ō	1		i	ł			<b>S</b>
FM-1000	1	6.3	20	25	<b>1</b> 37		-	-	-		
FM-1000 Test 2	1	6.3	35	46	<b>1</b> 37		1				>
1229	ļ	2	25	230	<b>4</b>	<u> </u>					
1266	4	Off	95	5	237			_			
(Good	ore 3	md '	10. 110 7 Tiiha	oberr e	lement test ally shows						1
short in				, 1101111	any bile ii b		<u>-'</u> j	_'	_'		<del></del>
1275	3	5	30	2	34		İ	İ	İ	İ	İ
1275 Test 2	3	5	30	3	24			-	-[	<u> </u>	
1635	2	6.3	26	34	56 <b>7</b> 8						
1635 Test 2	2	6.3	26	56	<b>347</b> 8			_	-[		
1654	J	1.4 3.3	41 25	<b>0</b> 350	1				_		-
5516 5618	3	3.3	25 21	2346	27 17						
5651	4	Off	95	15	247		_	_	-		
(	Good	tube r				Į	ı	1	1	•	1
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TUBE	]	KNOBS		LEVE	R POSITION	TUBE		KNOB		LEVER	POSITION
TYPE	A	B	C	ַ	)_ <b>D</b>	TYPE	A	B	J_ C ,	ַ <u></u> ָ	_ D
	Cir	Fil	Load	Up	Down		Cir	Fil	Load	Up	Down
0A4	4	Off	40	7	25	1F7 Test 3	1	2	95	4	7
0A4 Test 2	4	Off	44	5	27	1F7-GV	1	2	35	360	7
OB2	4	Off	95	15	247	1F7-GV Test 2	1	2	95	4	7
	(Good			0)		1F7-GV Test 3	1	2	95	4	7
0Y4	4	Off	22	5	378	1G4	ı	1.4	30	35	7
0Z4	4	Off	22	5	38	1G5	2	2	39	345	7
0Z4 Test 2	4	Off.	22	3	58	1G6 1G6 Test 2	1	$1.4 \\ 1.4$	<b>3</b> 5 <b>3</b> 5	34 56	7
1A3	1	1.4	75 20	<b>26</b>	3 <b>7</b>	1H4	2	2	41	35	7 7
1A4	Ţ	$\frac{2}{1.4}$	28 50	230 345	. <u>4</u> .7	1H5	1	1.4	33	30	7
1A5 1A6	2	2	50 50	343 34	6	1H5 Test 2	î	1.4	40	5	7
1A6 1A6 Test 2	1	2	95	250	6	1H6	ī	2	30	36	7
1A7	i	1.4	21	56	7	lH6 Test 2	ī	Ž	40	5	7
1A7 Test 2	î	1.4	95	340	7	1H6 Test 3	1	2	40	$\overline{4}$	7
1B3/8016	î	1.2	98	0	1 <b>3</b> 456 <b>78</b>	1]5	2	2	38	345	7
	Good	Tube Re		0)		1 <b>]</b> 6	2	2	39	34	7
		test, use			& ''0" only.)	1]6 Test 2	2	2	39	56	7
1B4	1	2	<b>27</b> ″	230	4	11.4	2	1.4	37	236	15
1B4P	2	2	35	230	4	1LA4	2	1.4	40	236	8
1B5	1	2	31	25	6	1LA6	į	1.4	30	34	8
1B5 Test 2	1	2	40	4	6	lLA6 Test 2	l	l.4 Tube F	95 200 <b>3</b> 0 4	256	8
lB5 Test 3	ļ	2	40	3	<u>6</u>	•				lO)	
1B7	Ţ	1.4	26	56	7	1LB4 1LB6	2	1.4	40	236	8 5
1B7 Test 2	7	1.4	95 32	340 345	7 7	1LB6 1LC5	1	$1.4 \\ 1.4$	32 32	234567 2346	8 58
1B8	2 2	1.4 1.4	60	60	7	1LC6	i	1.4	32 32	2340 34	8 -
1B8 Test 2 1B8 Test 3	1.	1.4	95	8	7	1LC6 Test 2	î	1.4	80	256	8 3
1C5	2	1.4	37	3 <b>4</b> 5	7	1LD5	ī	1.4	32	236	8 7
1C6	2	2	42	34	6	lLD5 Test 2	î	1.4	95	4	8 6
1C6 Test 2	ī	$\bar{\mathbf{z}}$	68	250	6		Good	Tube I		20)	
1C7	$\overline{2}$	$\overline{2}$	41	56	7	1LE3	2	1.4	37	26	8
1C7 Test 2	1	2	56	340	7	1 <b>LH4</b>	1	1.4	40	26	8
1D5	2	2	39	340	7	1 <b>LH4</b> Test 2	1	1.4	95	4	8
1D5GP	2	2	33	340	7		Good	Tube F	Reads 2	20)	
1D7	1	2	31	56	<b>7</b>	1LN5	2	1.4	40	2346	58
1D7 Test 2	1	2	95	340	7	1N5	1	1.4	27	340	7
1D8	2	1.4	48	60 3 <b>4</b> 5	7 7	1N6	2	1.4	38	345	7
1D8 Test 2	2	1.4	37	343 8	7	lN6 Test 2	1	1.4	95	6	7
1D8 Test 3	2	1.4 1.4	95 <b>45</b>	35	7	I 1956	300a 1	lube r	Reads 2 31	340	7
1E4	1	2	35	340	7	1Q5	2	1.4	33	345	7 7
1E7	2	2	30	348	7	1R4	í	1.5	57	4	<b>78</b>
1E7 Test 2	2	2	30	568	7	1R5	i	1.4	21	4	15
1F4	3	$\bar{2}$	47	234	5	1R5 Test 2	ī	1.4	95	236	15
1 <b>F</b> 5	2	$\bar{2}$	36	345	7	154	2	1.4	30	2346	15
1 <b>F6</b>	1	2	37	230	6	185	1	1.4	41	456	7
1 <b>F6</b> Test 2	1	2	<b>9</b> 5	4	6	1S5 Test 2	1	1.4	<b>5</b> 5	3	7
lF6 Test 3	1	2	95	5	6	1SA6	2	1.4	30	3468	7
1F7	1	2	35	360	7	1SB6	1	1.4	36	<b>34</b> 8	7
1F7 Test 2	1	2	95	5	7	1SB6 Test 2	1	1.4	90	5	7
						• <del>-</del>					

					TODE	CHAICE					
TUBE TYPE	A Cir	KNOBS B Fil	S C Load	LEVER U Up	POSITION D Down	TUŚE TYPE	A Cir	KNOB B Fil	S   C  Load	LEVE U Up	R POSITION Down
1T4 1T5 1U4 1U5 1U5 Test 2 1V	2 2 2 2 1 3 1	1.4 1.4 1.4 1.4 6.3	35 40 30 40 66 24 90	236 345 236 236 4 2	7 7 15 1 1 34 257	3B7 Test 2					
2A3	3 3 3	Tube R 2.5 2.5 2.5 Short	1eads 3 28 25 25 Test)	30) 23 5 3	<b>4</b> <b>7</b> 5 <b>7</b>	3LF4	2	1.4	3 <b>3</b>	<b>2</b> 34 <b>6</b>	17
2A5	3 3 1 1 2	2.5 2.5 2.5 2.5 2.5	36 26 40 40 32	234 20 4 3 5	5 <b>6</b> 5 <b>6</b> 5 <b>6</b> 5 <b>6</b> 6 <b>7</b>	3Q5	3 ament- 2	1.4 See I: 1.4	33 nstruction 35	345 ons 1b <b>2</b> 34 <b>6</b>	27 to 3b)
2A7 Test 2 2B6 2B6 Test 2 2B7	2 2 3 3	2.5 2.5 2.5 2.5	64 95 5 <b>0</b> 47	2340 2 34 230	6 <b>7</b> <b>67</b> 5 <b>7</b> 6 <b>7</b>	(Tapped File 4A6	ament- 2 3 3	—See In 2 2 2 5	nstruction 35 46 57	ons 1b 34 56 6	to 3b)
2B7 Test 2 2B7 Test 3 2E5 2E5 Eye CL 2E5 Eye OP	1 2 4 4	2.5 2.5 2.5 2.5 2.5	40 40 44 <b>0</b> 0	5 4 23 24 4	6 <b>7</b> 6 <b>7</b> 5 <b>6</b> 35 <b>6</b> 235 <b>6</b>	5AZ4 Test 2 5R4 (GY) 5R4 (GY) Test 2 5T4 5T4 Test 2	3 3 3 3	5 5 5 5	57 34 34 35 35	4 4 6 6 4	8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
2G5	2 4 4 1	2.5 2.5 2.5 1.2 1.2	44 0 0 26 26	23 24 4 1256 1256	5 <b>6</b> 35 <b>6</b> 235 <b>6</b> 3 <b>7</b>	5U4 5U4 Test 2 5V4 5V4 Test 2 5W4	3 3 3 3	5 5 5 5	35 35 25 25 48	6 4 6 4 6	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
2S/4S	l l l (Good	2.5 2.5 2.5 Tube R	45 45 96	3 2 0	37 45 45 7	5W4 Test 2 5X3	333	5 5 5 <b>5</b>	48 43 43 33	4 2 3 5	8 4 4 4 8
2W3	2 4 3 1	2.5 2.5 2.5 2.5	36 <b>52</b> 43 95	4 0 4 0	8 4 8 4	5X4 Test 2 5Y3 5Y3 Test 2 5Y4	3 3 3 3	5 5 5	33 57 57 57	3 6 4 5	8 8 8 7
2Z2 3A4 3A5 3A5 Test 2	3 2 2 2 2	Tube R 2.5 1.4 1.4	1eads 4 56 26 30 30	2 234 <b>6</b> 23 56	4 17 4	5Y4 Test 2 5Z3 5Z3 Test 2 5Z4 5Z4 Test 2	3 3 3 3	5 5 5 5	57 35 35 27 27	3 2 6 4	7 4 4 2 2
3A8 Test 2: 3A8 Test 3 3B5	1 1 1 2	1.4 1.4 1.4 1.4	36 36 4 <b>5</b> 35	340 56 8 345	27 27 27 27	6A3	3 3 2 ament	6.3 6.3 3.3 —See In	28 36 26 nstructio	23 234 35 ons 1b	4 5 27 to 3b)
(Tapped File	ament- 3	-See In	istructio 30	ons 1b t 23	0 3b) 18	6A6 6A6 Test 2	3 3	6.3 6.3	<b>3</b> 6 36	23 56	47 47

TUBE	1	KNOB	5	LEVER	POSITION	TUBE	1	KNOBS	3	LEVER	POSITION
TYPE	A	B	C	ט	D	TYPE	A	B	C	U	D
	Cir	Fil	Load	Uр	Down	İ	Cir	Fil	Load	Up	Down
6A7	2	6.3	30	45	67	6AS7 Test 2	3	6,3	16	45	60
6A7 Test 2	2	6.3	38	230	6 <b>7</b>	6AT6	3 1	6.3	20	43 17	6 <b>8</b> 2 <b>3</b>
6A8	2	6.3	31	56	<b>7</b> 8	6AT6 Test 2	1	6.3	35	5	2 <b>3</b>
6A8 Test 2	$\bar{z}$	6.3	40	340	<b>7</b> 8	6AT6 Test 3	i	6.3	35	6	2 <b>3</b>
6AB5	$\bar{2}$	6.3	95	23	5 <b>6</b>	6AU6	2	6.3	22	1256	<b>4</b> 7
6AB5 Eye CL	4	6.3	Ō	$\frac{24}{24}$	35 <b>6</b>	6AV6	3	6.3	19	17	2 <b>4</b>
6AB5 Eye OP	4	6.3	0	4	2356	6AV6 Test 2	1	6.3	44	5	2 <b>4</b>
6AB6	3	6.3	62	45	3 <b>7</b> 8	6AV6 Test 3	1	6.3	44	6	24
6AB6 Test 2	3	6.3	44	35	4 <b>78</b>	6B4	3	6.3	28	35	7
6AB7	3	6.3	23	468	35 <b>7</b>	6B5	3	6.3	45	24	<b>356</b>
6AC5	3	6.3	34	<b>3</b> 5	<b>7</b> 8	6B5 Test 2	3	6.3	63	34	<b>256</b>
6AC6	2	6.3	30	35	<b>7</b> 8	6B6	3	6.3	32	30	<b>7</b> 8 9
6AC6 Test 2	3	6.3	35	45	<b>7</b> 8	6B6 Test 2	1	6.3	40	4	<b>7</b> 8 🔾
6AC7	3	6.3	21	468	<u>35</u> 7	6B6 Test 3	1	6.3	40	5	<b>7</b> 8 🕕
6AD6	$^{2}$	6.3	95	345	<b>7</b> 8	6B7	3	6.3	50	230	6 <b>7</b>
		Tube R	_			6B7 Test 2	Ţ	6.3	40	4	6 <b>7</b> O
6AD6 Eye CL	4	6.3	0	346	78	6B7 Test 3	3	6.3 6.3	40	5	67
6AD6 Eye OP	4	6.3	0	5	3478	6B8 6B8 Test 2	o l	6.3	45 40	360	<b>7</b> 8 S
6AD7	3	6.3	33	345	<b>7</b> 8	6B8 Test 3	ì	6.3	40	<b>4</b> 5	<b>7</b> 8 S
6AD7 Test 2	2	6.3 6.3	51 29	16	<b>7</b> 8	6BA6	2	6.3	23	3 1256	<b>7</b> 8 <b>4</b> 7
	2	6.3	29 33	35 35	<b>7</b> 8	6BD6	$\ddot{2}$	6.3	12	1256	<b>4</b> 7
6AE6	2	6.3	33	45	<b>7</b> 8 <b>7</b> 8	6BE6	2	6.3	22	1230	24
6AE7	2	6.3	26	-34	5 <b>7</b>	6BE6 Test 2	2	6.3	22	567	24
6AE7 Test 2	2	6.3	27	36	<b>7</b> 8	6BF6	$\bar{3}$	6.3	28	17	<b>24</b> 56
6AF5	2	6.3	24	35	<b>7</b> 8	6BF6 Test 2	1	6.3	38	5	12467
6AF6	$\bar{2}$	6.3	95	345	<b>7</b> 8	6BF6 Test 3	1	6.3	38	6	12 <b>4</b> 57
		Tube R				6BG6	3	6.3	19	580	3 <b>7</b>
6AF6 Eye CL	4	6 <b>.3</b>	0	345	<b>7</b> 8	6BJ6	2	6.3	2 <b>2</b>	1567	24
6AF6 Eye OP	4	6.3	ō	5	34 <b>7</b> 8	6C4	2	6.3	25	<b>15</b> 6	<b>4</b> 7
6AG5	3,	6.3	20	156	237	6C5	2	6.3	30	35	<b>7</b> 8 <b>(</b>
6A <b>G7</b>	3 `	6.3	2 <b>4</b>	468	5 <b>7</b>	6C6	1	6.3	21	230	456
6AH7	3	6.3	30	13	2 <b>7</b>	6C7	į	6.3	21	20	6 <b>7</b> $\geq$
6AH7 Test 2	3	6.3	30	56	4 <b>7</b>	6C7 Test 2	1	6.3	40	4	6 <b>7</b>
6AJ5	2	6.3	23	156	237	6C7 Test 3 6C8	2	6.3 6.3	40 27	5 30	6 <b>7</b> $\geq$
6AK5	2	6.3	22	156	237	6C8 Test 2	2	6.3	27 27	56	4 <b>7 &gt;</b>
6AK6	3	6.3	30	125 <b>6</b>	<b>3</b> 7	6D4	3	6.3	20	17	<b>4</b> 5
6AL5	ļ	6.3	23	7	14	6D5	3	6.3	32	35	<b>.7</b> 8
6AL5 Test 2	l	6,3	23	2	<b>4</b> 5	909	3	6.3	21	2340	5 <b>6</b>
6AL6	. 3	6.3	24	450	<b>7</b> 8	6D7	ž	6.3	28	230	467
6AQ5	ა 1	6.3	22 20	<b>1</b> 56 <b>7</b>	2 <b>4</b>	6D8	$\frac{1}{2}$	6.3	34	56	<b>7</b> 8
6AQ6	1	6. <b>3</b> 6.3	20	17	2 <b>3</b>	6D8 Test 2	$\bar{2}$	6.3	42	340	<b>7</b> 8
6AQ6 Test 2 6AQ6 Test 3	1	6.3	40 40	5 6	2 <b>3</b> 2 <b>3</b>	6E5	$\bar{2}$	6.3	36	23	5 <b>6</b>
6AQ7	i	6.3	2 <b>2</b>	45	12368	6E5 Eye CL	4	6.3	0	24	356
6AQ7 Test 2	î	6.3	34	-3 -3	1280	6E5 Eye OP	4	6.3	0	4	2356
6AQ7 Test 3	î	6.3	34	ĭ	2 <b>8</b>	6E6	3	6.3	31	23	47
6AR5	ŝ	6.3	12	156	2 <b>4</b>	6E6 Test 2	3	6.3	31	56	47
6AR6	3	6.3	20	357	1 <b>8</b>	6E7	2	6.3	28	230	<b>4</b> 6 <b>7</b>
6AS7	3	6.3	16	12	3 <b>8</b>	6F4	2	6.3	22	1456	<b>7</b> 8
					1		(Use	Adapte:	rBR)		

## ADDITIONAL TUBES

		TATORO	<del></del>	t Etten	POSITION	TUBE		KNOB	5	LEVER	POSITIO
TUBE	*	KNOBS			D	TYPE	A	B	C	U	D
TYPE	A Cir	B Fil	C Load	Մ Մp	Down	' '	Cir	Fil	Load	Ūр	Dow
	Cir	<u> </u>									770
6F5	1	6.3	20	40	<b>7</b> 8	6Q7 Test 3	1 3	6.3 6.3	47 41	5 350	<b>7</b> 8 <b>7</b> 8
6 <b>F</b> 6	3	6.3	32	345	<b>7</b> 8	6R6 6R7	3	6.3	37	30	<b>7</b> 8
6 <b>F</b> 7	3	6.3	43	230	6 <b>7</b>	6R7 6R7 Test 2	1	6.3	33	4	<b>7</b> 8
6F7 Test 2	3	6.3	82	45	6 <b>7</b>	6R7 Test 3	i	6.3	33	5	<b>7</b> 8
6F8	2	6.3	24	30	47	6S6	3	6.3	24	140	<b>7</b> 8
6F8 Test 2	2	6.3	24	56 23	<b>7</b> 8 5 <b>6</b>	6S7	2	6.3	28	340	5 <b>7</b> 8
6G5	2	6.3	3 <del>6</del>	23	35 <b>6</b>	6S8	ī	6.3	28	60	27
6G5 Eye CL	4	6.3 6.3	0	4	235 <b>6</b>	6S8 Test 2	ĩ	6.3	40	ì	27
6G5 Eye OP	4 3	6.3	36	345	<b>7</b> 8	6S8 Test 3	ì	6.3	40	$\bar{4}$	2 <b>7</b>
6G6	3	6.3	36	20	<b>3</b> 57	6S8 Test 4	1	6.3	40	3	5 <b>7</b>
6G7	1	6.3	24	4	<b>37</b>	6SA7	2	6.3	24	45	6 <b>7</b> 8
6G7 Test 2 6G7 Test 3	1	6.3	$2\overline{4}$	6	37	6SA7 Test 2	2	6.3	28	348	167
	i	6.3	26	4	<b>7</b> 8	6SB7Y	2	6.3	2 <b>2</b>	<b>4</b> 5	167
6H4	2	6.3	36	23	5 <b>6</b>	6SB7Y Test 2	1	6.3	34	348	56 <b>7</b> 🕕
6H5 Eye CL	4	6.3	Õ	24	356	6SC7	3	6.3	33	<b>2</b> 3	6 <b>7</b>
6H5 Eye OP	$\bar{4}$	6.3	Ö	4	2356	6SC7 Test 2	3	6.3	38	45	6 <b>7</b> 🖳
6Н6	ī	6.3	25	3	47	6SD7	3	6.3	23	468	357
6H6 Test 2	1	6.3	25	5	<b>7</b> 8	6SE7	2	6.3	23	468	357
6H7S	3	6.3	33	234	6 <b>7</b>	6SF5	i 2	6.3	20	35	27
6H7S Test 2	2	6.3	52	5 <b>0</b>	6 <b>7</b>	6SF7	3	6.3	30	246	37
6J4	2	6.3	20	<b>156</b> 7	2 <b>4</b>	6SF7 Test 2	3	6.3 6.3	40 19	5 468	3 <b>7</b>
6J5	2	6.3	24	35	<b>7</b> 8	6SG7	2.	6.3	20	468	357
6]6	1 -	6.3	18,	16′	<b>4</b> 7	6SH7	2	6.3	27 27	468	35 <b>7</b>
6J6 Test 2	ī	6.3	18 29	25	<b>4</b> 7 15 <b>7</b> 8	6SK7	3	6.3	34	468	35 <b>7</b>
6J7	2 2	6.3 6.3	25 25	340 340	78	6SL7	3	6.3	28	12	37
6J8	2	6.3	25 <sub>_</sub>	540°	<b>7</b> 8	6SL7 Test 2	3	6.3	28	45	6 <b>7</b> 💙
6J8 Test 2 6K5	ĺ	6.3	20	*30	<b>7</b> 8	6SN7	2	6.3	<b>2</b> 6	12	3 <b>7</b>
6K6	3	6.3	34	345	<b>7</b> 8	6SN7 Test 2	2	6.3	26	45	6 <b>7</b> 🕕
6K7	2	6.3	32	340	5 <b>7</b> 8	6SQ7	1	6.3	20	2 <b>6</b>	3 <b>7</b> >
6K8	ĩ	6.3	20	56	<b>7</b> 8	6SQ7 Test 2	1	6.3	40	4	37
6K8 Test 2	1	6.3	22	340	5 <b>7</b> 8	6SQ7 Test 3	1	6.3	40	5	3 <b>7</b>
6L5	2	6.3	26	35	<b>7</b> 8	6SR7	2	6.3	30	26	37
6L6	3	6.3	2 <b>7</b>	345	<b>7</b> 8	6SR7 Test 2	1	6.3 6.3	5 <b>0</b> 50	<b>4</b> 5	3 <b>7</b> ≤
6 <b>1.</b> 7	2	6.3	56	4	<b>7</b> 6	6SR7 Test 3	3	6.3	30	3 468	35 <b>7</b>
6L7 Test 2	2	6.3	26	350	<b>7</b> 8	6SS7 6ST7	2	6.3	<b>2</b> 8	26	37
6N5	1	6.3	37	23	5 <b>6</b>	6ST7	í	6.3		4	3 <b>7</b>
6N5 Eye CL	4	6.3	0	24	35 <b>6</b>	6ST7 Test 3	i	6.3		5	3 <b>7</b>
6N5 Eye OP	4	6.3	0	4	235 <b>6</b> 3 <b>7</b> 8	6SU7	Ž	6.3		45	12 <b>3</b> 6 <b>8</b>
6N6	3	6.3 6.3	61 <b>41</b>	<b>4</b> 5 35	4 <b>7</b> 8	6SU7 Test 2	2	6.3		12	345 <b>68</b>
6N6 Test 2	3 <b>3</b>	6.3	29	3 <b>4</b>	<b>7</b> 8	6SV7	2	6.3		246	3 <b>8</b>
6N7 6N7 Test 2	3	6.3	29	56	<b>7</b> 8	6SV7 Test 2	2	6.3		5	3 <b>8</b>
6P5	2	6.3	30	35	<b>7</b> 8	6SZ7	1	6.3		26	3 <b>8</b>
6P7	$\tilde{z}$	6.3	32	450	<b>2</b> 8	6SZ7 Test 2	1	6.3		4	3 <b>8</b>
6P7 Test 2		6.3	70	67	28	6SZ7 Test 3	]	6.3		5	3 <b>8</b>
6Q6		6.3	20	30	<b>7</b> 8	6T5		6.3		23	5 <b>6</b>
6Q6 Test 2		6.3	90	5	<b>7</b> 8	6T5 Eye CL		6.3		24	35 <b>6</b>
6Q7		6.3	21	30	<b>7</b> 8	6T5 Eye OP		6.3		4	235 <b>6</b>
6Q7 Test 2		6.3	47	4	<b>7</b> 8	6T6M	Z	6.3	22	340	<b>7</b> 8

						UIIAILI				-	
TUBE		KNOBS		LEVE U	R POSITION   D	TUBE TYPE		KNOB			POSITION
TYPE	A Cir	B Fil	Load	qU	Down	TIPE	A Cir	B Fil	C  Load	U Up	Down
6T7	1	6.3	20	30	<b>7</b> 8	7AB7	3	6.3	26	135	4678
6T7 Test 2	1	6.3	40	4	<b>7</b> 8	7AD7	3	6.3	17	23 <b>4</b> 6	57 <b>8</b>
6T7 Test 3	1	6.3	40	5	<b>7</b> 8	7 <b>AF</b> 7	2	6.3	25	34	2 <b>78</b>
6T8	3	6.3	26	89	<b>35</b> 7	7AF7 Test 2	2	6.3	25	56	<b>2</b> 7 <b>8</b>
6T8 Test 2	1	6.3	26	2	3 <b>57</b>	7AG7	2	6.3	22	236	457 <b>8</b>
6T8 Test 3	1	6.3	26	1	<b>35</b> 7	7AH7	2	6.3	21	234 <b>6</b>	7 <b>8</b>
6T8 Test 4	1	6.3	26	6	<b>35</b> 7	7AJ7	2	6.3	23	236	47 <b>8</b>
6U5	2	6.3	37	23 24	5 <b>6</b>	7B4	1 3	6.3 6.3	22 <b>29</b>	26 236	7 <b>8</b> 7 <b>8</b>
6U5 Eye CL	4	6.3 6.3	0	4 4	35 <b>6</b> 235 <b>6</b>	MD V	2	6.3	2 <b>5</b>	230	78 ⊆
6U5 Eye OP	4 3	6.3	0 24	345	200 <b>0</b> <b>7</b> 8	7B6 7B6 Test 2	ĺ	6.3	58	5	478
6U7	2	6.3	30	340	5 <b>7</b> 8	7B6 Test 3	i	6.3	58	6	478
6V4	3	6.3	26	2	45	7B6LM	3	6.3	31	23	478
6V4 Test 2	3	6.3	26	3	45	7B6LM Test 2	Ĭ	6.3	58	5	478
6V6	3	6.3	29	345	Î <b>7</b> 8	7B6LM Test 3	1	6.3	58	6	478
6V7	3	6.3	46	0	<b>7</b> 8	7B7	2	6.3	28	236	47 <b>8</b> 🔾
6V7 Test 2	1	6.3	<b>5</b> 0	4	<b>7</b> 8	7B8	2	6.3	28	34	78
6V7 Test 3	1	6.3	<b>5</b> 0	5	<b>7</b> 8	7B8 Test 2	2	6.3	34	256	7 <b>8</b>
6W5	3	6.3	25	3	<b>7</b> 8	7C4/1203-A	2	6.3	33	4	78 (/)
6W5 Test 2	3	6.3	<b>25</b>	5	<b>7</b> 8	7 <b>C</b> 5	3	6.3	29	236	78
6W6	3	6.3	21	345	<b>7</b> 8	7C5LT	3	6.3	29	236	78
6W7	1	6.3	<b>2</b> 0	340	5 <b>7</b> 8	7C6	3	6.3	33	23	478
6X4	3	6.3	25	1	. <b>4</b> 7	7C6 Test 2	ļ	6.3	40	5	478
6X4 Test 2	3	6.3	25	6	<b>4</b> 7	7C6 Test 3	1	6.3	40	6	478
6X5	3	6.3	28	3	<b>7</b> 8	7C7 7E5	1	6.3 6.3	22 34	236 <b>1357</b>	478 468
6X5 Test 2	3	6.3	28	5 5	<b>7</b> 8		2 2	6.3	27	23	478
6X6	2 4	6.3 6.3	<b>4</b> 1 0	34	. <b>7</b> 8 5 <b>7</b> 8	7E6 7E6 Test 2	ĺ	6.3	45	5	478
6X6 Eye CL 6X6 Eye OP	4	6.3	0	4	35 <b>7</b> 8	7E6 Test 3	ì	6.3	45	6	478 U
	3	6.3	28	3	4 <b>6</b>	7E7	3	6.3	36	256	78
6Y5 Test 2	3	6.3	28	5	46	7E7 Test 2	ĭ	6.3	40	3	7 <b>8</b> ①
6Y6	3	6.3	19	345	<b>7</b> 8	7E7 Test 3	i	6.3	46	4	78
6Y7	3	6.3	33	34	<b>7</b> 8	<b>7F</b> 7	1	6.3	20	34	2 <b>8</b> $\leq$
6Y7 Test 2	3	6.3	33	56	<b>7</b> 8	7F7 Test 2	1	6.3	20	56	7 <b>8</b> $\geq$
6 <b>Z3</b>	3	6.3	24	2	3 <b>4</b>	7 <b>F</b> 8	2	6.3	22	13	47
6 <b>Z4</b>	3	6.3	26	2	45	7F8 Test 2	2	6.3	22	68	5 <b>7</b> >
6 <b>Z4</b> Test 2	3	6.3	26	3	45	7G7	2	6.3	24	236	478
6 <b>Z</b> 5	3	6.3	25	3	14	7G8	2	6.3	24	234	5678
6Z5 Test 2	3	6.3	25	5	14	7G8 Test 2	2	6.3	24	357	246 <b>8</b>
6 <b>Z</b> 7	3	6.3	32	34	· <b>7</b> 8	7H7	2	6.3	24	236	47 <b>8</b>
6Z7 Test 2	ა ე	6.3	32	56	<b>7</b> 8	7]7	2	6.3	30	345	7 <b>8</b>
6ZY5	3 3	6.3	36 26	3 5	<b>7</b> 8	7]7 Test 2 7K7	<u>د</u> 1	6.3	30 20	256 34	7 <b>8</b> 2 <b>8</b>
6ZY5 Test 2	ა ე	6.3 6.3	36 <b>24</b>	3 26	<b>7</b> 8	7K7 7K7 <b>T</b> est 2	1	6.3 6.3	20 3 <b>9</b>	5 <del>4</del>	2 <b>8</b> 7 <b>8</b>
7A4	3	6.3	2 <del>4</del> 23	236	7 <b>8</b> 7 <b>8</b>	7K7 Test 2 7K7 Test 3	ì	6.3	39 39	6	7 <b>8</b>
	3 1	6.3	28	3	2 <b>8</b>	7L7	2	6.3	26	236	47 <b>8</b>
7A6	i	6.3	28	6	7 <b>8</b>	7N7	2	6.3	26	34	2 <b>8</b>
7A7	3	6.3	28 28	236	47 <b>8</b>	7N7 Test 2	2	6.3	26	56	7 <b>8</b>
7A8	2	6.3	35	34	7 <b>8</b>	7Q7	2	6.3	2 <b>5</b>	34	7 <b>8</b>
7A8 Test 2	2	6.3	44	256	7 <b>8</b>	7Q7 Test 2	2	6.3	41	256	7 <b>8</b> .

					TUBE	CHART					
TUBE		KNOB:	S	LEVE	R POSITION	TUBE	ł	KNOB	S	LEVER	POSITION
TYPE	A	В	C	Ŭ	D	TYPE	A	B	ĭci	Ü	D
	Cir	Fil	Load	Uр	Down		Cir	Fil	Load	Uр	Down
7R7	2	6.3	22	256	78	12C8 Test 3	1	12.6	38	5	<b>7</b> 8
7R7 Test 2	ī	6.3	50	3	7 <b>8</b>	12E5	3	12.6	30	35	<b>7</b> 8
7R7 Test 3	ī	6.3	50	4	7 <b>8</b>	12F5	ĭ	12.6	2 <b>2</b>	40	<b>7</b> 8
7S7	2	6.3	<b>3</b> 3	34	7 <b>8</b>	12 <b>H</b> 6	ī	12.6	25	3	47
7S7 Test 2	2	6.3	23	256	7 <b>8</b>	12H6 Test 2	ī	12.6	25	5	<b>7</b> 8
7V7	3	6.3	18	236	478	12J5	2	12.6	$\frac{24}{24}$	35	<b>7</b> 8
7W7	2	6.3	24	236	<b>4</b> 5 <b>78</b>	12]7	ī	12.6	20	340	5 <b>7</b> 8
7 <b>X</b> 7	1	6.3	21	23	478	12 <b>K7</b>	3	12.6	34	340	5 <b>7</b> 8
7X7 Test 2	1	6.3	20	5	4 <b>78</b>	12K8	3	12.6	52	340	<b>7</b> 8
7X7 Test 3	1	6.3	21	6	<b>4</b> 78	12K8 Test 2	1	12.6	2 <b>2</b>	56	<b>7</b> 8 🖵
7Y4	3	6.3	33	3	7 <b>8</b>	12Q7	1	12.6	20	30	<b>7</b> 8
7Y4 Test 2	3	6.3	33	6	7 <b>8</b>	12Q7 Test 2	1	12.6	40	4	<b>7</b> 8
7 <b>Z4</b>	3	6.3	49	3	7 <b>8</b>	12Q7 Test 3	1	12.6	40	5	<b>7</b> 8
7Z4 Test 2	3	6.3	41	6	7 <b>8</b>	12SA7	2	12.6	25	<b>4</b> 5	6 <b>7</b> ①
10	3	7.5	56	23	4	12SA7 <b>Te</b> st 2	2	12.6	35	38	6 <b>7</b> 🖢
12A5	3	6.3	32	234	5 <b>6</b>	12SC7	1	12.6	20	23	67
12A6 12A7	3	12.6	32	345	<b>7</b> 8	12SC7 Test 2	1	12.6	20	45	07 (0
12A7 12A7 Test 2	2 1	12.6 12.6	29 20	230	6 <b>7</b>	12SF5	1	12.6	20	35	27
	2	12.6	20 36	5	47	12SF7	3	12.6	30	246	37
12A8	2	12.6	28	56	<b>7</b> 8	12SF7 Test 2	1	12.6	40	5	37_0
12AH7	3	12.6	30	340 13	<b>7</b> 8	12S <b>G7</b>	3	12.6 12.6	19	468	357
12AH7 Test 2	3	12.6	30	56	2 <b>7</b> 4 <b>7</b>	12SH7 12SJ7	3 1	12.6	19 20	468 468	<b>357</b> 35 <b>7</b>
12AL5	ĭ	12.6	25	34	56 <b>78</b>	12SK7	3	12.6	20 28	3468	5 <b>7</b> —
12AL5 Test 2	ī	12.6	25	56	234 <b>78</b>	12SL7	3	12.6	28	12	37
12AT6	3	12.6	26	17	2 <b>3</b>	12SL7 Test 2	3	12.6	28	45	67
12AT6 Test 2	1	12.6	35	5	2 <b>3</b>	12SN7	2	12.6	29	12	37
12A <b>T</b> 6 Test 3	1	12.6	35	6	2 <b>3</b>	12SN7 Test 2	2	12.6	29	45	6 <b>7</b>
12 <b>AT7</b>	2	6.3	24	12	3 <b>9</b>	12SQ7	1	12.6	22	26	3 <b>7</b> ①
12AT7 Test 2	2	6.3	24	<b>67</b>	89	12SQ7 Test 2	1	12.6	50	4	3 <b>7</b> >
12AU6	2	12.6	22	1256	<b>4</b> 7	12SQ7 Test 3	1	12.6	50	5	3 <b>7</b> ①
12AU7	2	6.3	25	12	3 <b>45</b>	12SR7	3	12.6	37	26	3 <b>7</b> _
12AU7 Test 2	2	6.3	25	67	<b>45</b> 8	12SR7 Test 2	1	12.6	33	4	3 <b>7</b> >
12AX7 12AX7 Test 2	l	6.3	20	12	3 <b>45</b>	12SR7 Test 3	1	12.6	33	5	37
12AX7 Test 2	1	6.3	20	67	<b>45</b> 8	12SY7	2	12.6	32	138	6 <b>7</b>
12B6 Test 2	3	12.6 12.6	31 58	30	<b>7</b> 8	12SY7 Test 2 12Z3	2	12.6	26	45	6 <b>7</b> >
12B6 Test 3	i	12.6	58	<b>4</b> 5	<b>7</b> 8	12Z3 12Z5	3 3	12.6 6.3	25 25	2	3 <b>4</b>
1927/14X7	2	12.6	30	2346	<b>7</b> 8 7 <b>8</b>	12Z5 Test 2	3	6.3	25 25	2 6	3 <b>4</b>
12B8	2	12.6	26	340	1 <b>7</b>	12Z5/6Z5	3	6.3	25 25	3	<b>4</b> 5 <b>14</b>
12B8 Test 2	3	12.6	26	58	6 <b>7</b>	12Z5/6Z5 Test 2.	3	6.3	25	5	14
12BA6	2	12.6	22	1256	<b>4</b> 7	14	2	12.6	30	230	<b>45</b>
12BD6	2	12.6	27	1256	<b>4</b> 7	14A4	2	12.6	26	26	7 <b>8</b>
12B <b>E6</b>	2	12.6	24	1	2 <b>4</b>	14A5	3	12.6	33	236	7 <b>8</b>
J2BE6 Test 2	2	12.6	24	567	2 <b>4</b>	14A7/12B7	2	12.6	30	2346	7 <b>8</b>
12B <b>F6</b>	2	12.6	34	17	2 <b>4</b>	14A <b>F7</b>	3	12.6	25	34	25678
12BF6 Test 2	1	12.6	38	5	2 <b>4</b>	14AF7 Test 2	3	12.6	25	56	23478
12BF6 Test 3	1	12.6	38	5	2 <b>4</b>	14B <b>6</b>	1	12.6	20	23	478
12C8	3	12.6	41	360	<b>7</b> 8	14B6 Test 2	1	12.6	40	5	478
12C8 Test 2	1	12.6	38	4	<b>7</b> 8	14B <b>6 T</b> est 3	1	12.6	40	6	<del>4</del> 78

TUBE TYPE	Ā	KNOB B	S   C	LEVE	R POSITION D	TUBE TYPE	я	KNOB			R POSITION
	Cir	Fil	Load		Down	IIFE	A Cir	B Fil	C Loαd	U qU	Down
14B8		12.6	34	34	7 <b>8</b>	25AC5	3	25	31	35	<b>7</b> 8
14B8 Test 2	2	12.6	30	256	7 <b>8</b>	25B5	3	25	37	24	5 <b>6</b>
14C5		12.6	25	236	7 <b>8</b>	25B5 Test 2	3	25	46	34	25 <b>6</b>
14C7	_	12.6	28	236	<b>478</b>	25B6	3	25	23	345	<b>7</b> 8
14E6		12.6	31	23	478	25B8	2	25	25	340	17
14E6 Test 2		12.6	65	5	478	25B8 Test 2	2	25 .	25	58	6 <b>7</b>
14E6 Test 3	_	12.6 12.6	65 28	6	<b>478</b>	25C6	3	25	25	3 <b>45</b> .	<b>7</b> 8
14E7		12.6	58	256	7 <b>8</b>	25D8	2	25	26	56	17 C
14E7 Test 3		12.6	58	3 4	7 <b>8</b> 7 <b>8</b>	25D8 Test 2	2	25 25	26	340	17
14F7	-	12.6	20	34	2 <b>8</b>	25D8 Test 3 25L6	3	25 25	22 22	8 34 <b>5</b>	17 O
14F7 Test 2		12.6	20	5 <b>6</b>	7 <b>8</b>	25L6	2	25 25	30	3 <b>45</b>	<b>7</b> 8
14F8	_	12.6	22	13	47	25S	1	20	31	25	6 0
14F8 Test 2		12.6	22	68	5 <b>7</b>	25S Test 2	i	2	40	4	6 5
14H7	_	12.6	22	236	<b>4</b> 78	25S Test 3	ī	$\overline{2}$	$\frac{10}{40}$	3	6 9
14J7	2	12.6	32	345	678	25X6	3	25	27	3	47 (0
14J7 Test 2	3	12.6	33	256	7 <b>8</b>	25X6 Test 2	3	25	27	5	<b>7</b> 8 0
14N7		12.6	26	34	<b>28</b>	25Y4	3	25	25	5	<b>7</b> 8 0
14N7 Test 2		12.6	26	56	<b>78</b>	25Y5	3	25	30	2	3 <b>6</b> ①
14Q7		12.6	25	34	<u>7</u> 8	25Y5 Test 2	· 3	25	30	5	46
14Q7 Test 2	-	12.6	30	256	7 <b>8</b>	<b>25Z5</b>	3	25	25	2	36
14R7		12.6	18	256	7 <b>8</b>	25Z5 Test 2	3	25	25	5	46 2
14R7 Test 2 14R7 Test 3		12.6 12.6	. 50 50	3	7 <b>8</b>	25Z6	3	25	24	3	47
14S7	^	12.6	28	4 34	7 <b>8</b> 7 <b>8</b> .	25Z6 Test 2 26	3 2	25 1.5	24 36	- 5 23	78
14S7 Test 2		12.6	24	256	7 <b>8</b> .	26 A6	2	25	22	23 1256	<b>4 4 7</b>
14W7	^	12.6	22	236	<b>4</b> 5 <b>78</b>	26A7	2	25	20	345	2 <b>7</b>
14X7	•	12.6	$\overline{20}$	23	478	26A7 Test 2	2	25	20	158	2 <b>7</b> ①
14X7 Test 2	1	12.6	20	5	478	26C6	3	25	30	17	2 <b>4</b> 56
14X7 Test 3		12.6	24	6	<b>478</b>	26C6 Test 2	1	25	36	5	12 <b>4</b> 67
		Tube F		10)		26C6 Test 3	1	25	36	6	12 <b>4</b> 57
14Y4		12.6	28	3	7 <b>8</b>	27	2	2.5	32	23	4 <b>5</b> $\geq$
14Y4 Test 2		12.6	28	6	7 <b>8</b>	28D7	2	25	22	234	6 <b>8</b> $\leq$
14 <b>Z</b> 3		12.6	25	2	3 <b>4</b>	28D7 Test 2	2	25	22	357	6 <b>8</b> _>
15		2 12.6	36 <b>4</b> 0	230 23	45 45	28Z5	3	12.6	38	3	187
17	_	12.6	- 31	234	5 <b>6</b>	28Z5 Test 2	3	12.6	38	-6 11-	<b>4.</b> 7
19		2	37	234	6	(Tapped Fila					
19 Test 2		$\bar{2}$	39	45	6	29	2	2.5	36	23	456
19T8	_	25	22	89	12 <b>35</b> 67	30	2	2	35	23	4
19T8 Test 2	1	25	17	2	13 <b>5</b> 6 <b>7</b> 89	31	2	2	40	23	4
19T8 Test 3		25	17	6	12 <b>35</b> 789	32	. 2	2 32	42 21	230 345	<b>4</b> <b>7</b> 8
19T8 Test 4		25	17	1	2 <b>35</b> 6789	32L7 Test 2	3	32	18	6 6	17
20		6.3	48	23	4	33	3	2	39	234	5
20]8		12.6	22	56	<b>7</b> 8	34	2	2	40	230	4
20J8 Test 2		12.6	20	340	<b>7</b> 8	35	$\bar{\tilde{2}}$	2.5	30	230	45
22:	_	3.3	56	230	4	35A5	3	32	22	236	<b>78</b>
`24A		2.5	32 27	230	4 <b>5</b>	35B5	3	32	20	1567	2 <b>4</b>
25A6 25A7	ა ი	25 25	27 27	345 34 <b>5</b>	<b>7</b> 8 <b>7</b> 8	· (S	hows	Short	1 and	7)	
25A7 Test 2	3	<b>25</b>	23	545 <b>6</b>	17	351.6	3	32	20	345	<b>7</b> 8
	•				13		-				- <b>-</b>

TUBE		KNOBS		LEVE	R POSITION	TUBE		KNOB		LEVER	POSITION
TYPE	Ā	B	C	Ū	D	TYPE	Ā Cir	B Fil	C	Ŭ U	Down
	Cir	Fil	Load	Up	Down	1			Load	Up	Down
35W4	3	32	20	5	<b>46</b> 7	57	2	2.5	30	230	456
(Tapped File		-See In				57A (AS)	3 3	6.3 2.5	34 35	230 230	45 <b>6</b> 45 <b>6</b>
35Y4	3 *********	32 Soo Ir	23 natrugti	2	147 to 3b)	58	3	$\frac{2.5}{2.5}$	29	2345	43 <b>6</b> 6 <b>7</b>
35 <b>Z3</b>	3	32 · · ·	22	Ž	7 <b>8</b>	64	ì	6.3	22	230	45
35Z4	3	32	20	5	<b>7</b> 8	65	2	6.3	28	230	45
35Z5	3	32	21	5	<b>23</b> 8	67	3	6.3	37	23	45
(Tapped File		–See Ir	nstructio		`•	68	3	6.3	37	230	4 <b>5</b>
35Z6	3 3	32 32	20	3	4 <b>7</b>	70A7	3 Charr	70 - Shor	23 tonl)	345	678
35Z6 Test 2	2	6.3	20 32	5 230	<b>7</b> 8 4 <b>5</b>	70A7 Test 2	3 Suow	5 51101 70	20		167
37	3	6.3	37	23	45	(Allow Tu	-			turn Lev	
38	3	6.3	36	230	45	to "U" Pos				Will Ki	ick to 70).
39/44	2	6.3	30	230	, <b>45</b>	7 <b>0L</b> 7	3	70	25	345	6 <b>7</b> ①
40	1	5	28	23	4	70L7 Test 2	3	70	20	8	17
40Z5	3	32 Sec. 1-	20	5	238	71A 75	ა 1	5 6.3	47 20	23 20	<b>4</b> 0
(Tapped File	ment- 3	—see п 6.3	nstructio 32	234	5 <b>6</b>	75 75 <b>Test 2</b>	1	6.3	38	3	56
42	3	6.3	29	234	5 <b>6</b>	75 Test 3	î	6.3	38	4	56
43	3	25	31	234	5 <b>6</b>	76	2	6.3	<b>3</b> 3	23	45
44	2	6.3	30	230	45	77	2	6.3	30	230	456
45	. 3	2.5	32	23_	4	78	3	6.3	31	230	456
45Z3	3	50 32	24 20	<b>26</b>	47	79 79 Test 2	3	6.3 6.3	30 30	23 50	46
(Tapped File	3 ment-		20 estructi	5 one lh	<b>23</b> 8	80	3	5	55	2	4
46	3	2.5	35	234	5	80 Test 2	3	5	55	3	4 _
47	3	2.5	41	234	5	81	3	7.5	75	2	4 🏹
48	3	32	25	234	5 <b>6</b>	82	3	2.5	24	2	4
49	2	2	38	234	5	82 Test 2	3	2.5	24	3	4 0
50 50A5	3	7.5 50	42 20	23 236	<b>4</b> 70	82V 82V Test 2	3 3	2.5 2.5	24 24	2 3	4 >
50A5	3	50 50	20 20	230 <b>1</b> 56 <b>7</b>	7 <b>8</b> 7 2 <b>4</b>	93	3	5	2 <del>4</del> 26	2	4
50C6	3	50	22	345	<b>7</b> 8	83 Test 2	3	5	26	3	4 <
50L6	3	50	21	345	<b>7</b> 8	83V	3	5	24	2	4 \le \
50X6	3	50	19	3	2 <b>8</b>	83V Test 2	3	5	24	3	4 <
50X6 Test 2	3	50	19	6	7 <b>8</b>	84	3	6.3	26	2	45 🗲
50Y6 50Y6 Test 2	3 3	50	23 23	3	4 <b>7</b>	84 Test 2 85	ა ვ	6.3 6.3	26 45	3 20	4 <b>5</b> 5 <b>6</b>
FORM	3	50 50	23 21	ა 5	<b>7</b> 8 <b>7</b> 8	85 85 Test 2	ì	6.3	47	3	5 <b>6</b>
50Z6 Test 2	3	50	21	3	4 <b>7</b>	85 Test 3	ī	6.3	47	4	5 <b>6</b>
50 <b>Z</b> 7	3	50	25	3	467	86M	3	6.3	37	35	<b>7</b> 8
50Z7 Test 2	3	5 <b>0</b>	25	5	<b>67</b> 8	87S	2	6.3	33	230	456
(Tapped File					to 3b)_	88	3	5	26 26	2	4
51	3	2.5	35	230	45	88 Test 2	3 3	5 6.3	26 31	3 3 <b>4</b> 0	<b>4</b> 5 <b>7</b> 8
52	3 3	6.3 2.5	30 32	234 23	5 47	88M 88S	3	6.3	32	23 <b>0</b>	45 <b>6</b>
53 Test 2	3	2.5	32	<b>2</b> 3	4 <b>7</b>	89	3	6.3	32	230	5 <b>6</b>
55	2	2.5	32	20	56	89RS	3	6.3	36	· 2 <b>0</b>	<b>3</b> 57
55 Test 2	1.	2.5	40	3	5 <b>6</b>	89RS Test 2	1	6.3	24	4	3 <b>7</b>
55 Test 3	1	2.5	40	4	56	89RS Test 3	1	6.3	24	6	3 <b>7</b>
56	2.	2.5	30	23	45	95	3	2.5	36	234	5 <b>6</b>

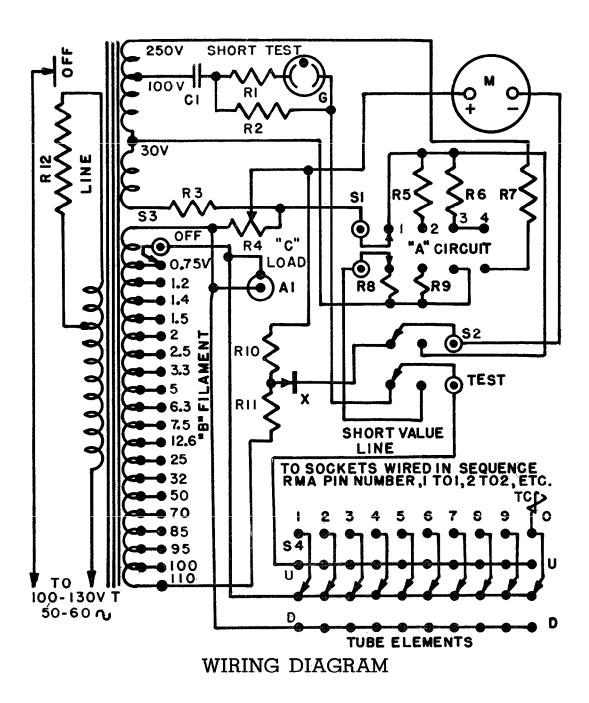
				A	10.		CIIIII						
TUBE		KNOBS		LEVER	POSITION	1	TU	BE	]	KNOBS	3	LEVER	POSITION
TYPE	A	B	C	Ü	D	1	TY	PE	A	В	C	U	.   D
	Cir		Load	Uр	Down				Cir	Fil	Load	Up	Down
			00	_	A mm		5107V		1	1.2	30	124	5
98	3	6.3	26	2	45		518AX		ì	1.2	30	124	5
98 Test 2	3	6.3	26	3	45		520AX 521AX		ì	1.2	30	124	5
99	Z	3.3	55 45	23	4	- 1			1	1.2	30	124	5
113HY/123HY	1	1.4	45 55	23 0	5 <b>7</b>	i	585		3	7.5	42	23	4
114HY	3	1.4 op Caps					586		3	7.5	42	23	4
(DI)	ort	op Caps	Toge 45	234	5	ŀ	615 <b>HY</b>		3	6.3	33	0	7
115HY/145HY	3	110	25	345	<b>7</b> 8		010111	(Sh	_		Toget	her)	_
117L7	3	110	20	6	17		800		3	7.5	54	0	4
117M7	3	110	23	345	<b>7</b> 8	ı		(Sh	ort Tor		Toget	her)	$\subseteq$
117M7 Test 2	3	110	21	6	17		801		3	7.5	42	23	4 =
117N7	3	110	20	345	6 <b>7</b> 8		802		3	6.3	29	340	567
117N7 Test 2	3	110	15	0.20	<b>7</b> 8	1			3	6.3	25	230	45
	_			Return	Lever 7 to	ı	809		3	6.3	27	30	• 4 ①
"U" Pos		Good '	Tube \	Will Kic	k to 70.)	ŀ	812		3	6.3	29	30	4 _
117P7	3	110	22	<b>34</b> 5	6 <b>7</b> 8	- 1	837		· 3	12.6	25	340	567
117P7 Test 2	3	110	15		<b>7</b> 8	- 1	840		2	2	33	230	45 TS
(Allow	Tube	to Heat	Up.	Return	Lever 7 to	ł			3	7.5	45	23	4 ()
"U" Pos	sition.	Good 7	Tube '	Will Kic	k to 70.)				3	7.5	54	23	4 ()
117 <b>Z</b> 3	3	110	24	15	<b>4</b> 6	1			1	1.4	55	23	45
117Z4	3	110	19	5	<b>7</b> 8	l			3	7.5	80	230	*
11 <b>7Z</b> 6	3	110	20	3	<b>47</b>		866 (A)		3	2.5 2.5	25 52	0 0	
117 <b>Z</b> 6 Test 2	3	110	20	5	<b>7</b> 8				4 4	6.3	20	35	<b>4</b> 0
123HY/113HY	1	1.4	45	23	5 ·	- 1	884		4	2.5	20	23	45
125 <b>HY</b> /155 <b>HY</b>	2	1.4	45	234	5	1	885 <b>950</b>		3	2.0	46	234	<b>E C</b>
145HY/115HY	1	1.4	45	234	5	- 1			2	2	40	230	4 🗸
155HY/125HY	2	1.4	45	234	5		954		2	6.3	32	3450	<b>7</b> 8
182-B	3	5	37	23	4 4	- 1	001	• • • • • • • •		Adapt			Ф
183	3	<sup>6</sup> 5 5	40 45	23 23	4	ı	955		2	6.3	30	45	<b>7</b> 8 >
201-B	2.	5	45	23 23	4	ı			(Use	Adapt	er BN)		<b>O</b>
201-C	3	2.5	44	23	45	į.	956		Ž	6.3	30	3450	<b>7</b> 8
427	3	5	47	23	4				(Use		er BN)	1.	>
482-B	š	5	37	23	4		957		1	1.2	30	<b>4</b> 5	78 >
483	3	5	40	23	4	ı			(Use	Adapt	ter BN)	4 ==	>
484	3	2.5	32	23	45	l	958	• • • • • • •	1	1.2	30	45	<b>78</b> >
485	2	2.5	33	23	45	- 1			(Use		ter BN)	0450	<b>5</b> 0
486	. 2	3.3	48	23	45		959	• • • • • • •		1.2	34	3450	<b>7</b> 8
501	. 1	1.4	35	234	5	-	000		(Use	.Adapi	ter BN) 26	2	4
501X		1.4	35	345	7	1	986		3	5	26	3	4
502	. 1	1.4	35	234	5	ı	986 Test 1003		4	Öff	22	5	38
502AX		1.2	30	124	<u>5</u>			st 2	4	Off	32	3	58
502X		1.4	35	345	7	l			2	6.3	34	1357	468
503		1.4	35	234	5	ł			ī	6.3	33	4	78
503AX		1.2	30	124	5	i	_		2	6.3	26	135	4678
503X		1.4	35	345	7				ī	6.3	22	230	· 45 <b>6</b>
504		1.4	35 35	234 345	5 7	_			ĩ	6.3	22	340	5 <b>7</b> 8
504X		1.4 1.2	30		. , , 5	1			2	6.3	23	236	478
506AX		1.2	30		5	ì			2	6.3	24	236	4 <b>7</b> 8
507AX	. 1	1.2	30	1 47	•	l						)	

				<u> </u>	1000		
TUBE	] _	KNOBS	]		R POSITION	TUBE KNOBS LEVER POSITION	ON
TYPE	A	<u>B</u> .	. C .∫	<u>.</u> U	_ D	TYPE A B C U I	
	Cir	Fil   1	Load	qU	Down	Cir   Fil   Load   Up   Dor	WII
1267	4	Off	31	5	27	AG Test 2 3 5 26 3 4	
1273	3	12.6	26	236	47 <b>8</b>	<b>CK-1005</b> 4 6.3 22 5 38	
1280	3	12.6	26	236	478	CK-1005 Test 2. 4 6.3 22 3 58	
1284	3	12.6	25	236	47 <b>8</b>	G-2 1 2.5 45 3 45	
1291/3B7	1	1.5	33	23	18	G-2 Test 2 1 2.5 45 2 45	
1291/3B7 Test 2.	1	1.5	33	67	18	<b>G-4</b> 1 2.5 45 3 45	
1293	2	1.4	32	26	8	G-4 Test 2 1 2.5 45 2 45	
1294/1R4	1	1.5	57	4	7 <b>8</b>	G-84 3 2.5 56 2 4	
1299/3D6	2	1.5	25	236	18	<b>GA</b> 3 <b>5 32</b> 234 <b>5</b>	
1603	1	6.3	23	230	456	KR-1 3 6.3 24 2 34	
1608	3	2.5	24	23	4	<b>KR-5</b> 3 6.3 36 234 <b>5</b>	
1610	3	2.5	28	234	5	<b>KR-25</b> 3 2.5 36 234 5 <b>6</b>	
1612	3	6.3	25	40	<b>7</b> 8	<b>KR-98</b> 3 6.3 26 2 4 <b>5</b>	Ó
1614	3	6.3	24	345	<b>7</b> 8	KR-98 Test 2 3 6.3 26 3 45	0
1616	3	2.5	57	0	4	<b>PZ</b> 3 2.5 41 234 <b>5</b>	<u>a</u>
1619	3	2.5	29	345	<b>7</b> 8	<b>PZH</b> 3 2.5 36 234 56	9
1620	1	6.3	22	340	<b>7</b> 8	<b>R-30 2 2 35</b> 23 <b>4</b>	
1621	3	6.3	40	345	<b>7</b> 8	<b>R-100</b> 3 7.5 43 0 <b>4</b>	+
1622	3	6.3	27	345	<b>7</b> 8	(Short Top Caps Together)	(7)
1624	3	$\mathbf{\hat{2}.5}$	<b>2</b> 6	230	5	<b>R-200</b> 3 7.5 • 40 0 <b>4</b>	()
1625	3	12.6	25	340	6 <b>7</b>	(Filament Connected from 1 & 4 on 4 Pin Teste	
1626	3	12.6	3 <b>2</b>	35	<b>7</b> 8	Socket to 2 & 4 Pin of Tube—Short Top Cap	os
1629	2	12.6	36	35	<b>7</b> 8	Together and Connect to Top Cap Lead.)	4
1629 Eye CL	4	12.6	0	34	5 <b>7</b> 8	<b>RK-33</b> 3 6.3 27 45 67	Ö
1629 Eye OP	4	12.6	0	4	35 <b>7</b> 8	<b>RK-33 Test 2</b> 3 6.3 27 30 27	$\tilde{}$
1631	3	12.6	27	345	<b>7</b> 8	<b>RK-34</b> 3 6.3 27 50 47	-=
1632	3	12.6	22	345	<b>7</b> 8	(Top Cap Lead on Left Top Cap)	$\subseteq$
1633	2	25	28	12	3 <b>7</b>	<b>RK-34 Test 2</b> 3 6.3 27 30 47	て
1634	1	12.6	20	23	6 <b>7</b>	(Top Cap Lead on Right Top Cap)	
1851	3	6.3	20	340	5 <b>7</b> 8	VR-75 4 Off 30 5 · 237	(1)
1852	3	6.3	21	468	35 <b>7</b>	(Good Tube Reads 10)	
1853	3	6.3	23	468	<u>35</u> <b>7</b>	VR90-30 4 Off 30 5 237	(1)
2050	3	6.3	15	356	<b>7</b> 8	(Good Tube Reads 10)	
2051	3	6.3	19	35 <b>6</b>	<b>7</b> 8	VR-105 4 Off 30 5 237	. \$
7700	1	6.3	20	230	456	(Good Tube Reads 10)	>
8016	~ _ 1	1.2 Tube Re	98 ~d= 1	0 0	1 <b>3</b> 456 <b>78</b>	VR-150-30 4 Off 30 5 237 (Good Tube Reads 10)	$\leq$
					& "0" only.)	TTTT 1A	
	1	6.3	20 -	156	247	WND. A 3 6.3 35 23 456	
	2	6.3 6.3	27	<b>15</b> 6	247	WND. C 3 2.5 35 23 456	
9002	2	6.3	27	156	247 247	X99 2 3.3 55 23 4	
9004	ĩ	6.3	20	4	57	XXB 2 1.4 40 34 18	
0004	-	Adapter		7	<i>5,</i>	XXB Test 2 2 1.4 40 56 18	
9005	1	3,3	34	5	4 <b>78</b>	XXD 3 12.6 25 34 256	7 <b>8</b>
9005	(] [se	Adapter		J		XXD Test 2 3 12.6 25 56 2347	
9006	1	6.3	25	15	247	XXFM 1 6.3 20 23 478	
AF	3	2.5	24	2	4	XXFM Test 2 1 6.3 27 5 48	
AF Test 2		2.5	24	3	4	XXFM Test 3 1 6.3 27 6 78	
AG	š	5	26	2	4	XXL 2 6.3 24 26 78	
	-		-				

# REPLACEABLE PARTS, 68 NRI

Ref. No.	Quan.	Part Name	Description	Function	Part No.
Cl	1	Capacitor	.1 Mfd. 400 DC WV	Series Capacitor	T-2631-P27
G M	1 1	Lamp Instrument	Neon, 1/25W, GE 1 Mα. 100 Mv. 327-T	Short Test Short Test Indication	T-3024-2 T-52-288
Rl	1 1	Resistor	Composition, 100K Ohm, $\pm 20\%$ , 1/10W	Current Limiting Neon	T-2602-1/10-100K
R2	ī	Resistor	Composition, 250K Ohm, ±10%, ½W	Shunt, Neon, Calib.	T-2601-1/2-250K
R3	1	Resistor	Wirewound, 50 Ohm, ±1%	Cathode Return Coupling	
R4	1	Resistor	Variable, 200 Ohm, 5% Tol.	Load Control	T-16-30
R5~	1	Resistor	Wirewound, $450*$ Ohm, $\pm 1\%$	Tube Test Shunt Res.	T-15-1249
R6	1	Resistor	Wirewound, $1800*$ Ohm, $\pm 1\%$	Tube Test Shunt Res.	T-15-1251
R <b>7</b>	1	Resistor	Composition, 2500 Ohm, ±5%, 10W	Current limiting	T-15-873
R8	1	Resistor	Composition, 5K Ohm, ±1%, ½W	Current limiting	T-15-1009
R9	1	Resistor	Composition, 1K Ohm, $\pm 1\%$ , $\frac{1}{2}$ W	Current limiting	T-15-1011
R10	1	Resistor	Wirewound, 1200* Ohm, ±1%	Line Meter Calib.	T-15-1250
Rll	1	Resistor	Composition, 75K Ohm, $\pm 1\%$ , 1W	Line Meter Series	T-15-970
Rl2	1	Resistor	Variable, 175 Ohm, Model B, Ohmite	Line Control	T-16-29
			with off position		-
S1 S2 S3	1	Switch	14 Pos., 2 Deck, 4 Active Pos.	Circuit Switch	T-22-81
S2	1 1	Switch	3 Pos., 1 Deck	Test Switch	T-22-43
S3	1	Switch	20 Pos., 1 Deck	Filament Switch	T-22 <b>-</b> 35
S4	10	Switch	3 Pos., Lever, 1 Deck	Element Switch	T-22-56
T	1	Transformer	110 V, Pri., 22 Sec. taps	Filament & Plate	T-23-41
	_	ı		Voltage Supply	_
Х	1	Rectifier	Copper oxide, ½ Wave, B/l, Schauer, 2 Lead	Line Meter Rect.	T-2248-1
	1	Case	With Hardware	Tester Housing	T-10-765
	1	Cord	Line, 7 ft., black	Connector	T-2566-11-7
	10	Knob	9/16D Round, Black	Element Switch Knob	T-34-7
	2 3	Knob	l¹/4" bar, black	Switch Knobs	5804
		Knob	<u>l</u> 1/4", bar red	Switch Knobs	T-34-8
A1	1	Socket	7 prong with pilot socket, black, Amphenol S-7C	Tube Socket	T-2455-48
	1	Socket	Bantam, 6 prong, black, Amphenol 78-6H		1-2455-58
	1	Socket	9 prong, black, Amphenol 78-A9P	Tube Socket	T-2455-96 T-2455-4
	1	Socket	4 prong, black, Amphenol S-4	Tube Socket	T-2455-4
	1	Socket	5 prong, black, Amphenol S-5	Tube Socket	1-2455-5
	1	Socket	6 prong, black, Amphenol S-6	Tube Socket	T-2455-6
	1	Socket	Loctal, 8 hole, black, Amphenol 78-8L	Tube Socket	T-2455-8L
	1 .	Socket	Miniature, 7 prong, black, Amphenol 78-7P	Tube Socket	T-2455- <b>5</b> 9
	1	Socket	Octal, 8 hole, black Amphenol S-8	Tube Socket	T-2455-8
	1	Socket	Subminiature 5, 6 & 7 prong	Tube Socket	T-2455-80

<sup>\*</sup> Approx. value calibration resistor



Printed in U.S.A. Part No. T-84-42149